

8/787, 216  
Does Not Comply  
Corrected Diskette Needed

abst.txt

## POLYMERIC HEMOGLOBIN MUTANTS

### Abstract of the Disclosure

Human  $\alpha$ -globin mutant polypeptides comprise the amino acid sequence of normal human  $\alpha$ -globin modified by (i) the substitution or deletion of Cys at positions 93 and 112, and (ii) the substitution of a Cys for a non-Cys amino acid at one other position in the polypeptide, preferably Ser at position 9. Modified human hemoglobins containing this or other  $\alpha$ -globin mutations, and/or an  $\alpha$ -globin mutation, are provided, as well as polymers of such modified hemoglobins. Nucleic acids, vectors and transformed host cells for producing the  $\alpha$ -globin mutants are provided.